

HOLICH, LUDOVIC YUDOVICH, A.

Occurrence of extradermal lesions in patients with  
skin cancer. Czech. dermatol. 1964, 10, 1, 1-10.

1. Onkologický ústav v Brně - Československá Vláda, Praha.  
2. Ústav klinické dermatologie a venerologie, 1. lékařská  
fakulta, Praha.

GERYSER, L.

Contribution on the knowledge of aerosols for pharmaceutical use.  
Cesk. farm. 12 no.3:153-158 Mr '63.

1. Vyzkumny ustav pro farmacii a biochemii, Praha.  
(AEROSOLS) (GLYCOLS) (ETHERS) (CHEMISTRY, PHARMACEUTICAL)

CZECHOSLOVAKIA

GERYSEK, L.

No affiliation given

Bratislava, Pharmaceuticky obzor, No 1 [Jan] 1967, pp 28-37

"Pharmaceutical preparations in pressure packaging."



CHESKO-SLOVENSKO

LUDMIL LUDMILOV, Pharmaceutical and Mechanical Research Institute  
(Vyskumný ústav pre farmáciu a mechaniku) (Road (práh) 1) on the 21.  
11.1961, 31.12.1961.

"Development of Pharmaceutical and Medical Aerosols."

Prague, Časopis lékařů Česky, Vol 102, No 3, 1. 3. 1961, pp 21-24 of  
separately published section "Medical Science Abroad" (Lékařská věda  
zahraničí).

Abstract: Review without bibliography, references, based primarily or  
perhaps exclusively on the Third International Congress on Aerosols in  
Luzern October 1961; none of great interest in Czechoslovakia since  
spray bandage "Akutol" has been developed, other aerosols are traded.  
Discussion of 2- and 3-phase systems: suspension and dispersion, foam  
and emulsion; compressed gas system, types of propellants, valves;  
general and special advantages: pharmaceutical and medical aerosols;  
imminent developments and overall trends in the field.

[1/1

GERZA, B.

The method of calculating the production used in the enterprises of the Chief Administration No. 2, of the Ministry Building. p. 311.

(Pozemni Stavby. Vol. 5, no. 6, June 1957. Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 10, October 1957. Uncl.

ACC NR: AP6032016

SOURCE CODE: UR/038/10/004/006/0201/0205

AUTHOR: Fridkin, F. M.; Gerzanich, Ye. I.; Groshik, I. I.; Lyubovitskaya, V. A.

ORG: Institute of Crystallography, Academy of Sciences USSR (Institut kristallografii Akademii nauk SSSR)

TITLE: Absorption edge in the semiconducting ferroelectrics SbSBr, BiSBr, and SbSI

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniye, v. 4, no. 6, 1966, 201-205

TOPIC TAGS: ferroelectric material, semiconducting material, second order phase transition, phase transition, absorption edge, light absorption

ABSTRACT: To ascertain the behavior of the intrinsic absorption edge in a series of ferroelectrics of groups V, VI, and VII, which undergo low-temperature phase transitions, the authors investigated optical absorption in SbSBr, BiSBr, and SbSI in polarized light in the interval from +40 to -190C. The SbSBr, BiSBr, and SbSI single crystals were grown from the gas phase. The SbSBr and BiSBr crystals were in the form of thin needles (transverse dimension not larger than 0.1 mm, length 10 - 5 mm). The SbSI single crystals were larger (10 x 1 x 1 mm). All the investigated single crystals were rhombo-dipyramidal. The direction of the spontaneous polarization coincided with the twofold axis parallel to the needle axis. The measurements were made in a vacuum cryostat cooled with liquid nitrogen, with a temperature maintained accurate to 0.2C. The transmission spectra were investigated with a monochromator and

Card 1/2

ACC NR: AP6032016

a photomultiplier. The relation  $\alpha^{1/2} \sim h\nu$  ( $\alpha$  - absorption coefficient,  $h\nu$  - photon energy) was satisfied for all three crystals in the entire investigated temperature interval, thus pointing to the indirect character of the transitions. In addition, the  $\alpha^{1/2}$  vs.  $h\nu$  curve of SbSBr had two straight-line sections, connected apparently with the absorption and emission of a phonon. The phonon energy determined from the difference between the energies corresponding to the two sections turned out to be 0.03 eV and independent of the temperature. No change in the shape of the absorption edge during the phase transition was observed in any of the crystals. A jump in the width of the forbidden band takes place in the region of the phase transition of all the ferroelectrics. A striking fact is the jump in the temperature coefficient of the forbidden-band width observed in the case of SbSBr in the paraelectric region at a temperature -103°C, apparently due to a second-order phase transition. The behavior of BiSBr and SbSI is qualitatively the same. The results not only confirm the existence of ferroelectric phase transitions in SbSBr, BiSBr, and SbSI at -180, -170, and +22°C respectively, but indicate unambiguously their character (first-order transitions). In addition to these transitions, singularities in the temperature dependence of the width of the forbidden band are observed in the paraelectric region for SbSBr and BiSBr and in the ferroelectric region for SbSI. These are apparently evidence of the existence of second-order phase transitions in these crystals. Orig. art. has: 1 figure.

SUB CODE: 20/ SUBM DATE: 09Jun66/ ORIG REF: C03/ OTH REF: 004

Card 2/2



SERZANITS, J

SERZANITS, J.

SERZANITS, J. Designing models in the ready-to-use for 1-4 st p. 1. 1961.

Vol. 1, No. 1, p. 1. 1961.

1961-13 CIL TECHNICA

TO BRUCY

Budapest, Hungary

Co: East European Access ion, Vol. 1, No. 1, May 1961

GERZANITS, J.

TECHNOLOGY

PERIODICAL: <sup>..</sup>PROCESSES OF TECHNOLOGY. Vol. 1, no. 1, Oct. 1998

Gerzanits, J. Processing Bieker's pannofix leathers by letting out the material. p. 139.

Monthly list of East European Accessions (EEA) 10, Vol. 1, no. 2,  
February 1999, unclass.

BRUNING, C.

NR- 51 OF JOURNAL. (Korjari Tudonanyos Agasilet Art a Magyar Tudonanyos Agasiletok Agazetsaga Tapoggyaslete) Budapest.

Recurrent features: News of the association;  
Index for 1977.  
Index for 1978.

See method for letting out paper belts. 1. 1977.

Vol. 1, 1. 1, Dec. 1977.

Monthly List of East European Assassinations (CIA), 1. 1, 1. 1, 1. 1,  
March 1977. Unclass.

GERZANITS, Jozsef

Classification of fur offals and their utilization in the  
production. Bor cipo 10 no.1:23-25 Ja '60.

1. Szormekonfekcio Vallalat.

GERZANITS, Jozsef

The use of infrared drying equipment in the fur garment industry.  
Bor cipo 10 no.3:38-89 My '60.

1. Szormekonfekcio Vallalat.

GERZANITS, Jozsef; CSEH, Lajos

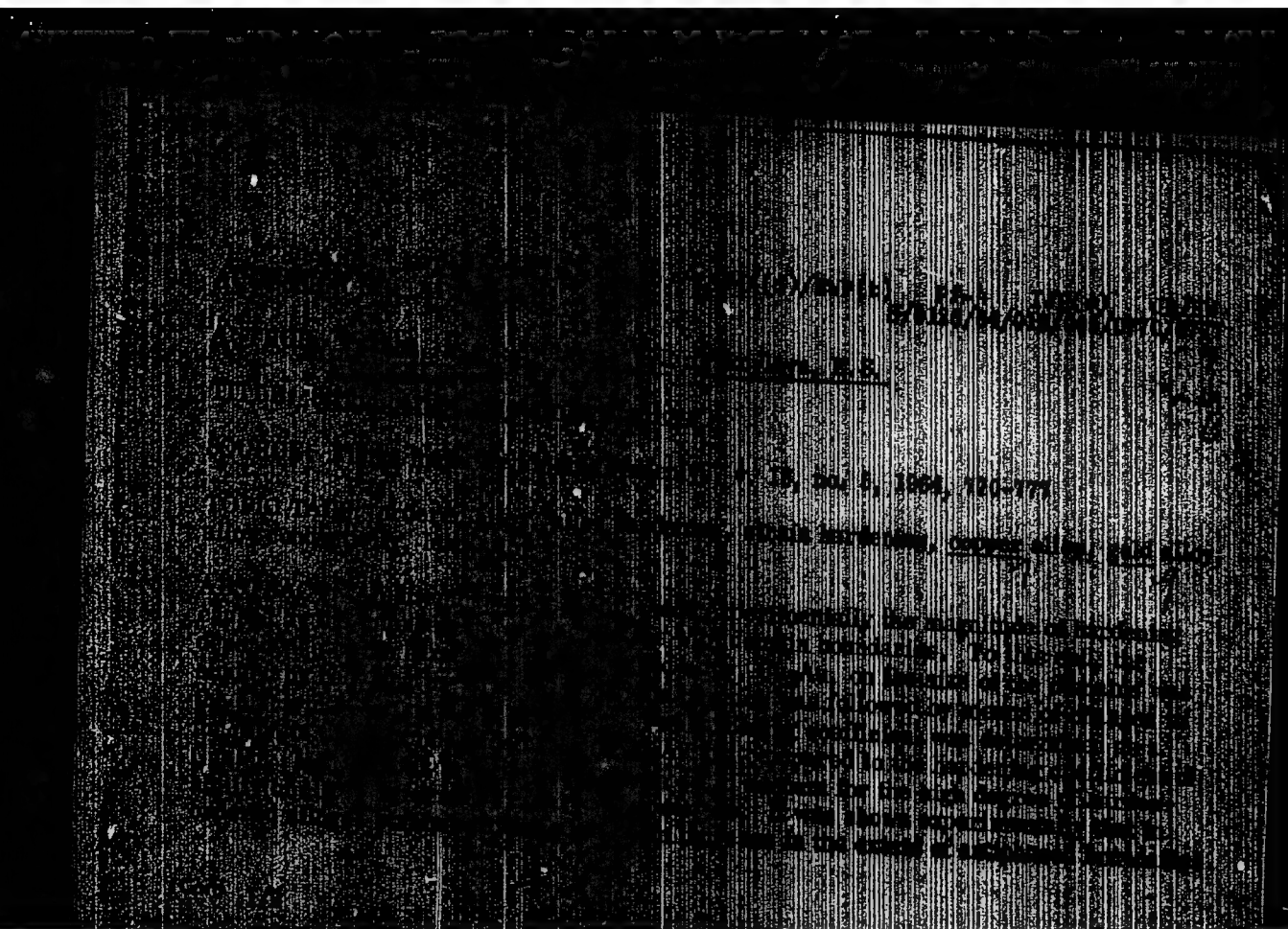
Most recent guiding principles for processing Persian lamb  
skins. Bor cipo 12 no.5/6:178-182 0 '62.

1. Pannonia Szormekikészítő és Konfekcionáló Vállalat.

GERZHA, I.A.; SYUTKINA, V.I.; YAKOVLEVA, E.F.

Brittleness of alloys with a face-centered cubic lattice  
ordered according to the AB type. Fiz. met. i metalloved.  
20 no.3:433-441 S '65. (MIRA 18:11)

1. Institut fiziki metallov AN SSSR.







L 26643-66 EWT(m)/EWP(w)/T/EWP(t) IJP(c) JD/JG

ACC NR: AP5025330

SOURCE CODE: UR/0126/65/020/003/0433/0441

AUTHOR: Gerzha, L. A.; Syutkina, V. I.; Yakovleva, E. S.

ORG: Institute of Metal Physics, AN SSSR (Institut fiziki metallov AN SSSR)

TITLE: Brittleness of AB ordered alloys with face centered cubic lattice

SOURCE: Fizika metallov i metallovedeniye, v. 20, no. 3, 1965, 433-441

TOPIC TAGS: ordered alloy, crystal dislocation, copper alloy, shear stress, metal recrystallization, crystal lattice structure, gold alloy, brittleness

ABSTRACT: The effect of ordering on the development of brittleness in CuAu alloy was studied. A dislocation model was suggested to explain the reason for the development of the brittle state in AB type ordered alloys with face centered cubic lattice. It is caused by the formation of a fine domain structure with differently directed layers of similar atoms, since with the migration of displacement through these domain boundaries, shearing stress should change. In the process of CuAu alloy ordering, recrystallization occurs, caused by phase work-hardening which develops due to the change in alloy lattice symmetry. We take this opportunity to thank B. A. Grinberg for useful discussions in

Card 1/2

UDC: 539.292:539.56

L 26643-66

ACC NR: AP5025330

considering the results of our work. Orig. art. has: 8 figs.

SUB CODE: 11,20 / SUBM DATE: 22Jul64/ ORIG REF: 008/ OTH REF: 012

Card 2/2 H

1. ALIPOV, S. - GERZHABEK, T.
2. USSR (600)
4. Municipal engineering
7. Qualifications for municipal engineers. Zhil. -kom. khoz. 12 no. 10, 1952.
9. Monthly List of Russian Accessions, Library of Congress, March 1953. Unclassified.

GERZHBURG, I.L., inzhener.

Installation of large blocks and assemblies in the construction  
of industrial plants. Prom.energ.11 no.9:26-30 S '56. (MLRA 9:11)

1. Trest "Uralelektromontash."  
(Electric engineering) (Factories)

LOSHKARFV, K.I.; GERZHBFRG, Yu.M.; SHAN'GIN, A.N.

Preventing hole deviation of wells in the oil fields of the  
Chechen-Ingush A.S.S.R. Burenie no.1:18-20 '64.

(MIRA 18:5)

1. Groznenskiy neftyanoy nauchno-issledovatel'skiy institut.

1. The first part of the document, Y. Y. ...

2. The second part of the document, Y. Y. ...

3. The third part of the document, Y. Y. ...

GERZHEDOVICH, P.I.

NAZAROV, M.I. [deceased]; KOTOV, M.I.; GERZHEDOVICH, P.I.; BRADIS, E.M.

Willow family (Salicaceae Lindl.). Flora URSS 4:17-86 '52.

(Ukraine--Willows)

(MLRA 7:12)



1. GERCHENGOYN B.M.
2. USSR (600)
4. Ventilation
7. Insuring dependable work of intake and exhaust machines. Rab.energ. 2 no.12, 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

GERZHEVAN-LATI, V.N.

Device for the automatic control of the melting point of petroleum products in a technological stream. Khim.i tekhn.topl. i masel 7 no.11:57-60 N '62. (MIRA 15:12)

1. Leningradskiy filial Spetsial'nogo konstruktorskogo byuro po avtomatizatsii neftepererabotki i neftekhimii.  
(Petroleum products) (Melting points) (Automatic control)

S/194/62/000/007/122/160  
D413/D308

AUTHORS: Gerzhenzon, Yu.M., and Shupyatskiy, A.B.

TITLE: The scattering of elliptically-polarized radio waves  
by non-spherical particles in the atmosphere

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika,  
no. 7, 1962, abstract 7-7-36 m (Tr. Tsentr. aerol. ob-  
serv., no. 36, 1961, 102 - 108)

TEXT: The paper considers the theoretical questions of using elliptically-polarized waves for the radar investigation of non-spherical particles in clouds and precipitation. Water and ice particles are represented approximately as ellipsoids of revolution. From a general expression for the echo signal from a collection of non-spherical particles with elliptical polarization, the particular cases follow the magnitude of radar scattering for circular and linear polarizations, as a function of the form, orientation and phase state of the particles. The advantages of using elliptically polarized radiation are demonstrated. It follows from the calculations that by varying the parameters of the polarization one radar can be

Card 1/2

The scattering of elliptically- ...

S/194/62/000/007/122/160  
D413/D308

used to give extra information on the form, orientation, and (given certain assumptions) the phase state of the scattering particles. 6 references. [Abstracter's note: Complete translation.]

Card 2/2

GERZHIKOV, S.

Achievements of the Soviet electric industry. p.1. ELEKTROENERGIA.  
Sofiya. Vol. 6, no. 12, Dec. 1955.

SOURCE: East European Accessions List. (EEAL) Library of Congress.  
Vol. 5, No. 8, August 1956.

ACC NR: AP6036700

(A)

SOURCE CODE: UR/0170/66/011/005/0634/0638

AUTHOR: Mikhal'chenko, R. S.; Gerzhin, A. G.; Pershin, N. P.

ORG: Physico-Technical Institute of Low Temperatures, AN UkrSSR, Khar'kov (Fiziko-tekhnicheskii institut nizkikh temperatur AN UkrSSR)

TITLE: Use of the flat plate method to study thermophysical properties of high efficiency insulation at low temperatures

SOURCE: Inzhenerno-fizicheskii zhurnal, v. 11, no. 5, 1966, 634-638

TOPIC TAGS: insulating material, thermal insulation, low temperature insulation

ABSTRACT: The insulation properties of vacuum vessels were studied by constructing a special calorimeter of sufficiently simple geometry to eliminate fringe effects and parasitic thermal currents. Its construction also allows study of the effectiveness of powders, fibers and cellular materials as insulators at heat flow rates of 15 to 50,000 microwatt/cm<sup>2</sup>. The temperature range was 4.2 to 373°K. The insulator samples were studied at pressures between 13.3 and  $13.3 \cdot 10^{-6}$  Newtons per m<sup>2</sup>. Schematics are given to show the calorimeter construction and measuring arrangements. The preliminary testing determined the measurement accuracy to be about ±5%. The greatest contribution to the error is from nonuniformity of the heat conduction coefficients in the sampled materials. The authors conducted tests on the effectiveness of many materials,

Card 1/2

UDC: 536.2.081.7

ACC NR: AP6036700

but include the results of three materials only. The table includes the effective coefficient for heat conduction of polyethelene plates aluminized on one side, thin aluminum foil sandwiched between layers of fiberglass (type SBR-M) of 40 mirror thickness, and fiber diameter of 5-7 microns, and, finally, penoplastic of type PSB. The second of these materials was found to have the lowest coefficient of conduction. Orig. art. has: 3 figures, 1 table.

SUB CODE: 11,13/

SUBM DATE: 28Mar66/

ORIG REF: 002/

OTH REF: 004

Card 2/2

GERZHOV, V., komandir samoleta An-2

The work of an aviator is research. Grazhd. av. 21 no. 5:14-15  
My '64. (MIRA 18:4)



30863. 1947, A. P.

Peredvizhnaya zernosushilka (SP-I (Kubass). Zagotovki s.-kt. produktov,  
1947, No. 1, s. 50-53.



USSR /Chemical Technology. Chemical Products  
and Their Application

I-32

Food industry

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 32959

Author : Gerzhoy A.P., Dzhorogyan G.A.

Inst : All-Union Scientific Research Institute of  
Grain and Products of Grain Processing

Title : Experimental Drying of Newly Harvested Grain  
in the Novosibirsk Oblast'.

Orig Pub: Soobshch. 1 ref. Vses. n.-i. in-ta zerna i  
produktov yego pererabotki, 1954, No 1, 3-6

Abstract: On drying of wheat having a moisture content  
above 20% and normal gluten (G), under single-  
-stage conditions (temperature of gaseous mix-

Card 1/3

USSR /Chemical Technology. Chemical Products  
and Their Application

1.02

Food industry

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 32959

ture 120°) and under two-stage conditions (temperature 110-130°) the quality of G was not lowered; amount of crude G was decreased on the average by 2%; on increase of the temperature to 130-140° the quality of G was lowered and at the same time the amount of G was sharply decreased. With a moisture content of the wheat below 20%, under conditions of two-stage treatment (90-110° and 90-140°) the quality of G was not lowered and its amount was decreased on the average by 1 and 2.5%. Specific elasticity of G was decreased, in all cases, as a result of the drying. Determinations of the break-baking properties of the flour made from the grain,

Card 2/3

USSR /Chemical Technology. Chemical Products  
and Their Application

I-32

Food industry

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 32959

before and after drying, have shown that on drying of grain containing more than 20% moisture a single-stage drying should be used with the temperature of the gaseous mixture not over 120°, or a two-stage process, with temperatures of 110-130°; and heating of the grain to 45-50°. On drying of seed grain, under two-stage conditions (70-90°) and a lowering of the moisture content by 7% in a single pass, the germination power and development of seedlings were not impaired.

Card 3/3

<sup>p</sup>  
GERZHOY, A., kandidat tekhnicheskikh nauk.

Speed-up in grain drying processes. Muk.-elev.prom. 20 no.5:9-13  
My '54. (MLRA 7:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zerna i produk-  
tov ego pererabotki.  
(Grain--Drying)

ГЕРЗОЙ А.И.

DZHOROBYAN, G.A., nauchnyy sotrudnik; ZIBEL', B.Ye., inzh. [translator];  
 MESHCHERINA, O.Ye., bibliograf [translator]; KOZ'MINA, N.P., doktor  
 biol.nauk, otvetstvennyy red.; GRIGOR'YEV, K.P., inzh., red.;  
 KUPRITS, Ye..N., doktor tekhn.nauk, prof., red.; KUPRIYANOV, A.V.,  
 inzh., red.; LYUBARSKIY, L.N., doktor sel'skokhozyaystvennykh nauk,  
 prof.red.; LANDA-DALEV, L.M., starshiy nauchnyy sotrudnik; GERZHOY,  
 A.P., kand.tekhn.nauk, starshiy nauchnyy sotrudnik; FEDOSOVA, N.I.,  
 red.; GOLUBKOVA, L.A., tekhn.red.

[Drying and heat processing of grain; translations and abstracts]  
 Sushka i termicheskaya obrabotka zerna; perevody i referaty.  
 Moskva, Izd-vo tekhn. i ekon.lit-ry po voprosam mukomol'no-  
 krupianoi, kombikormovoi promyshl. i elevatorno-skladskogo khoz.,  
 1957. 90 p. (MIRA 11:5)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut  
 zerna i produktov ego pererabotki. 2. Vsesoyuznyy nauchno-  
 issledovatel'skiy institut zerna i produktov ego pererabotki  
 (for Dzhorogyan, Gerzhoy, Meshcherina). 3. Mel'kombinat imeni  
 TSyurupy (for Zibel')  
 (Grain--Drying)

GERZHOY, Arkadiy Petrovich, kand. tekhn. nauk.; SAMOCHINOV, Viktor Fedorovich, inzh;  
GINZBURG, A.S., prof., doktor tekhn. nauk, red.; KNYZER, V.A., red.;  
GOLUBOVKA, L.A., tekhn. red.

[Grain drying and grain dryers] Zernoosushenie i zernoosushilki.  
3. perer. i dop. izd. Moskva, Izd-vo tekhn. i ekon. kit-ry oo  
voprosam mukomol'no-krupianoi, kombikormovoi promyshl. i elevatorno-  
skladskogo khoz., 1958. 322 p. (MIRA 11:12)  
(Grain--Drying)



GERZHOY, A., kand.tekhn.nauk; SOSEDOV, N., kand.biol.nauk

Checking the quality of gluten in drying with heated air. Muk-slev.  
prom. 24 no.6:21 Je '58. (MIRA 11:7)

1.Vsesoyuznyy nauchno-issledovatel'skiy institut zerna i produktov  
yego pererabotki.

(Grain--Drying)

GERZHOY, A., kand.tekhn.nauk; SAMOCHETOV, V., inzh.

Problems of increasing the capacity and improving the utilization  
of grain drying installations in the forthcoming seven-year plan.  
Muk.-elev.prom. 25 no.7:7-10 J1 '59. (MIRA 12:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zerna i  
produktov yego pererabotki.  
(Grain--Drying)

GERZHOV, A., kand.tekhn.nauk; SAMOCHETOV, V., inzh.; KOKAROVTSOVA, V., inzh.

Grain drying as the basis of the storage of ~~state~~ grain reserves.  
Muk.-elev. prom. 28 no.11:11-13 N '62. (MIRA 16:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut ~~zerna i produktov~~  
yego pererabotki (for Gerzhov, Samochetov). 2. Gosudarstvennyy  
komitet zagotovok Soveta Ministrov SSSR (for Kokarovtseva).  
(Grain—Drying)

RAIP, Aleksandr Yefimovich, KGB, Tekhn. nauk, GENZEL, A.I.;  
Laurent Gendurskiy (pseud.), Tekhn. Tekhn. Tekhn.;  
spets. rel.; PTILSYA, S.D. Tekhn. Tekhn. Tekhn.;  
retiree, ANKHANG, I.A. Tekhn. Tekhn. Tekhn.;  
F.N. Tekhn.

Laurent Gendurskiy (pseud.), Tekhn. Tekhn. Tekhn.;  
spets. rel.; ANKHANG, I.A. Tekhn. Tekhn. Tekhn.;  
F.N. Tekhn.

GERZHOY, I. P., Engr.

Adjusting the work of the <sup>4</sup>superheated of a high pressure steam boiler with  
shaftmill furnace, (TP-230-1). Rab. energ. 2, No 7, 1952.

GERZHON, I.P., inzhener.

Improving the combustion process of TP-230 high-pressure steam boiler:  
with shaft mill furnace. *Energetik* 2 no.2:3-5 p 154. (MIRA 7:4)  
(Steam boilers)

GERZHOY, I.P., inzhener.

Reconstruction of the gas burners of high pressure steam boilers.  
Energetik 2 no.10:10-11 0 '54. (MLRA 7:10)  
(Steam boilers) (Gas burners)

AUTHOR: Kagan, Ya.A., Candidate of Technical Sciences, Ostrovskiy  
Ya.M., Engineer, Gerzhoy I.P., Engineer and Grachev S.V.,  
Engineer. 114-6-8/11

TITLE: Modernisation of screw type dust feeders and dust feed  
assembly by the Moscow Power Institute - Mosenergo system.  
(Modernizatsiya schnekovykh pylepitately i uzla pylepit-  
aniya po sisteme MEI - Mosenergo.)

PERIODICAL: "Energomashinostroenie" (Power Generation Machinery  
Construction) 1957, Vol.3, No. 6, pp. 24 - 28 (U.S.S.R.)

ABSTRACT: The article describes briefly the main features of the  
latest version of the MEI Mosenergo pulverised fuel feed  
system. The screw immediately below the bunker is of  
gradually increasing diameter so that fuel is taken from  
the entire width of the bunker instead of just one part of  
it. The last few threads of the screw before delivery of  
the fuel are made of somewhat smaller pitch than the rest  
so that the fuel is compressed. This prevents fuel from  
the bunker from sliding through the screw faster than it  
ought to be delivered. To secure the best results the  
bunker walls should be made nearly vertical. In this way,  
the entire volume of the bunker is made active. The  
system has been described in previous articles. This

Card 1/3



Modernisation of screw type dust feeders and dust feed assembly by the Moscow Power Institute - Mosenergo system. (Cont.) 114-6-8/11

article describes an installation installed in 1955 on a boiler with a steam output of 200 tons/h working on pulverised lean coal. Furnace and boiler performance figures measured a month before and a month after reconstruction are tabulated and show that before reconstruction the pressure deviated from the mean value by more than one atmosphere from 5 to 29 times a shift, and by more than two atmospheres from 1 - 8 times a shift; after reconstruction the deviations of more than one atmosphere were reduced in number to 0 - 5 and there were no deviations of more than two atmospheres. The temperature of the superheated steam was also much more constant. Various formulae are given relating to the design and performance of the screw type conveyor. The fuel feed system was completely reconstructed on one boiler whilst on a neighbouring boiler only the actual screw was changed. The boiler with the completely reconstructed fuel feed arrangement operates reliably with all dust feeders controlled automatically. The other has to have one or two of its dust feeders under hand control to maintain normal steam conditions. The steam conditions from this latter boiler are satisfactory but those of the first boiler are more uniform. In

Card 2/3

91-58-5-2/35

AUTHORS: Gerzhoy, I P., Engineer, and Maroshi, V Yu., Engineer

TITLE: The Transformation of Boilers From Pulverized-Coal Fuel to Gas Fuel (Perevod kotlov s pyleugol'nogo na gazovoye top-livo)

PERIODICAL: Energetik 1958, Nr 5, pp 3-6 (USSR)

ABSTRACT: In the Moscow Energy System, "Mosenergo", boilers, burning pulverized-coal, were transformed to gas fuel. The boilers had a capacity of 70-ton/hour and worked with 65 ata and 485°C, using low-grade Donets coal as fuel. The heat generated per cu m per hour is 160 10<sup>3</sup> kcal/m<sup>3</sup>h. In the front wall 2 pulverized coal burners type ORGRES-TK4 are fitted. The boiler is also equipped with two high-speed mills "Rezolyutor", type B. In the transformation of the boiler to gas, it was stipulated, that coal may still be used as a reserve fuel. For this purpose a special ring type gas burner was designed (Figure 1). The temperature of the super-heated steam fell to 430°C after transformation to gas. Therefore two additional burners were installed in the front wall 7.8 m above the principal ones. The productivity of each burner is 4,000 m<sup>3</sup>/h and of each

Card 1/2

31.55-5.2, 31

# The Transformation of Boilers From Pulverized-Coal Fuel to Gas Fuel

additional burner 600 - 800 m<sup>3</sup>/h The boiler was put into operation with a mixture of natural and coking gases of a heat value of 6,600 kcal/nm<sup>3</sup> Experiments have shown that, at an excess of air, incomplete chemical burning is at a minimum of 0 - 0.3% The loss of heat in waste gases is lower than in coal It increases by a change of stress from 40 - 70-ton/hour from 5% to 7% The efficiency factor reaches at maximal boiler load 91.5 - 92% The drawbacks of the boiler are: high temperature of the superheated steam and a great consumption of water in the steam cooler; considerable resistance of the gas burner, reaching at maximal load, 800 mm water column A new gas burner has been designed (Figure 3) in which the gas is conducted in the central pipe, to obtain better burning conditions In the electric power stations of Mosenergo a mixture of several gases is burned The heat value fluctuates between 6,200 - 7,500 kcal/nm<sup>3</sup> A regular distribution of gas and air in the different burners is very important, otherwise 6% losses by incomplete chemical burning result

There are 4 figures

AVAILABLE:

Card 2/2

Library of Congress

1. Fuels - USSR

AUTHOR: Gerzhoy, I.P., Engineer

307/96-59-8-7/27

TITLE: The Combustion of Gas in Screened Pulverised Fuel Furnaces

PERIODICAL: Teploenergetika 1959, Nr 8, pp 20-25 (USSR)

ABSTRACT: Tests have been made by the Moscow Power System on more than ten medium- and high-pressure boilers burning gas in furnaces with different types of pulverised-fuel burners. The thermal loadings of the furnaces ranged from 120 to 200  $\times 10^3$  kcal/m<sup>2</sup>hr. The reserve fuel is lean coal and it was required to change fuels during operation without shutting down the furnace; the new burners had to carry full load with normal steam conditions. The gas burners were built into the pulverised-fuel burners so as to minimise the reconstruction of the boilers and make the conversion cheaper. There are two main types of burner: in one the gas and air are premixed, whilst in the other they enter the furnace separately. A typical burner of the latter type is shown in Fig 1. Such burners have been fitted to 11 high- and medium-pressure boilers of outputs up to 200 tons per hour; their main characteristics are given. As a rule all the burners were used at once, whatever the load on the boiler, and the

Card 1/4

SOV/96-59-8-7/27

The Combustion of Gas in Screened Pulverised Fuel Furnaces

furnace was well filled with a luminous straw-coloured flame. Test results on a boiler type TP-3 equipped with burners of this type are given in Table 1: prolonged operation showed that with the same degree of contamination of the heating surfaces the flue gas temperatures were 20 to 40°C lower when burning gas than when burning coal. The combined gas/coal burners proved reliable and satisfactory in operation. In one or two boilers the superheat temperature could not be maintained when burning gas, but this was easily corrected by installing additional burners, as illustrated diagrammatically in Fig 2. These burners are installed 6 to 7 metres above the main burners and each pair raises the superheat temperature by 7 to 10°C. Burners in which the gas and air is premixed were installed on a number of boilers. The construction of these burners is described and illustrated by section drawings in Fig 3. Test results on a high-pressure boiler equipped with slot-type burners of the type shown in Fig 3a are given in Table 2. Similarly Table 3 relates to a Borsig boiler with round burners type ORGRES-TKZ, shown in Fig 3B. From the start it was found that in most of the

Card 2/4

30V/96 52 8 7/2

# The Combustion of Gas in Screened Pulverised Fuel Furnaces

boilers fitted with these burners the superheat temperature was unexpectedly high, and this limited the maximum load in the boilers. The flue gas temperature was higher than when burning coal. In most cases the flame from the burners was transparent or in a few, semi-transparent. The burners were unreliable when the boiler operated on a mixture of gas and coal, particularly if the gas consumption was low. A number of burners were modified, with considerable improvement in performance. Various curves of superheat temperature as a function of load before and after the modification are given in Figs 4 and 5. In general, the gas nozzles were lengthened and their arrangement was altered so as to cut down the amount of preliminary mixing of gas and air which were then thoroughly mixed at the outlet from the burners. Arising out of this experience a new type of burner was designed, and a sectional drawing is given in Fig 6. The latest design is that shown in Fig 6a. A swirler is used to ensure good mixing. When these new burners were installed the flame became luminous, the superheat temperature was reduced and by operation of the dampers it could be maintained at the

Card 3/4

SOV/96 59 6 7/27

The Combustion of Gas in Screened Pulverised Fuel Burners

required value throughout the range of boiler loads. A disadvantage of these burners is that the gas nozzle does not last long when the boiler is burning pulverised fuel or a mixture containing little gas. Cones made of sheet steel last for more than 6 months when burning gas but only 10 days on pulverised fuel. There are 6 figures, 3 tables

ASSOCIATION: Mosenergo

Card 4/4

BOGATYREV, V.N., inzh.; GERZHOY, I.P., inzh.

Adjustment of the operation of the gas burners of the TP-80 boiler.  
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GERZHOY, I.P., inzh.

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Elek. sta. 35 no.10:2-10 0'64.

(MIRA 17:12)

Boris Ivanovich, Gerzinsk, 1906-1964; obituary. Genl. 1 Jan. 1964, 43  
Mr '64.

GERZHULA, Boris Ivanovich, prof., doktor tekhn. nauk; KURACHEKIN,  
A.A., red.; SHURIGINA, A.I., red.; izd-va, ELMANOVA, V.V.,  
tekhn. red.

[Surveying in the construction of industrial, residential and  
public buildings] Geodeziya v promyshlennom i zhilishchno-  
grazhdanskom stroitel'stve. Moskva, Gosgeoltekhizdat, 1963.  
239 p. (MIRA 16:6)

(Surveying) (Building sites)

GERZHULA, B.I.

Ways of improving topographical surveys for housing construction.  
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GONT, Iosif Froimovich; PLOTICHER, Yevgeniy Anatol'yevich, GERZHULA,  
B.I., doktor tekhn. nauk, prof., otv. red.; KURILOVA, T.M.,  
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[Tachymetric tables] Takheometricheskie tablitsy. Khar'kov,  
Izd-vo Khar'kovskogo univ., 1962. 161 p. (MIRA 16:5)  
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A.A., red.; SHURYGINA, A.I., red.izd-va, ROMANOVA, V.V.,  
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[Surveying in the construction of industrial, residential and  
public buildings] Geodeziia v promyshlennom i zhilishchno-  
grazhdanskom stroitel'stve. Moskva, Gosgeoltekhizdat, 1963.  
239 p. (MIRA 16:6)

(Surveying) (Building sites)

LYUBINA, A.A.; KONDRANKI, V.M.; JACHENIA, I.B. ; ...

-study of the deformation processes. ...  
18:09-44 '62.

STOJANOVIC, V.; DRAGOJEVIC, B.; GERZIC, Z.

Kongenitalne perikardijalne ciste. Acta chir. iugosl. 3 no.4:  
365-371 1956.

1. II hirurska klinika Medicinskog fakulteta u Beogradu (upravnik  
prof. dr. Vojislav Stojanovic).

(PERICARDIUM, cysts  
congen. (Ser))



VUJADINOVIC, Borislav; TOMIC, Ljubomir; GERZIC, Zoran

Gangrenous cholecystitis with biliary peritonitis caused by  
Ascaris lumbricoides. Srpski arh. celok. lek. 84 no.10:1181-  
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prof. dr. Vojislav K. Stojanovic.

(PERITONITIS, etiol. & pathogen.

Ascaris lumbricoides causing biliary peritonitis with  
gangrenous cholecystitis (Ser))

(CHOLECYSTITIS, etiol. & pathogen.  
same)

(ASCARIS, infect.

gangrenous cholecystitis & biliary peritonitis caused by  
Ascaris lumbricoides (Ser))

RASOVIC, Ljubomir, profesor, dr.; PESIC, Radoslav, docent, dr.; GERZIC,  
Zoran, dr.

Severe contusion of the thorax. (Pathophysiology and treatment).  
Vojnosanit. pregl. 22 no.3:166-170 Mr'65

1. I hirurska klinika, Medicinski fakultet u Beogradu.

YUGOSLAVIA

GENJIC, Boran, Second Surgical Clinic of the Medical Faculty of the University (II Klinicka Klinika Medicinskog Fakulteta Univerziteta); Head (Glavni) Lect. Dr. Vojislav K. STOJANOVIC, Belgrade

'Traumatic Rupture of Non-parasitic Cyst of the Spleen'

Belgrade, Srpski Arhiv za Celokupno Lekarstvo, Vol 94, No 4, Apr 66; pp 381-384.

Abstract: [German summary modified] Case history of a man aged 26 with sudden acute pain following a bout of play-wrestling during work; a perforated cyst of the spleen was found during emergency laparotomy; uneventful splenectomy and presumed recovery. Photograph of operative specimen, photomicrographs; 1 Yugoslav, 4 Western references. Manuscript received 6 Nov 64.

1/1

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STOJANOVIC, V.K.; RASOVIC, L.J.; GERZIC, Z.

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7(8) no.1:21-7 '60.

1. II Hirurska klinika Medicinskog fakulteta u Beogradu (Upravnik  
prof. dr. V.K.Stojanovic)  
    (SARCOMA case reports)  
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    (MESENTERY neopl)

STOJANOVIC, V.; GERZIC, Z.; BOGDANOVIC, M.

Echinococcosis of the pancreas. Acta chir.iugosl. 7(8) no.2:152-155  
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1. II Hirurska klinika Medicinskog fakulteta u Beogradu (Upravnik  
prof. dr Vojislav Stojanovic) i Interna klinika "B" Medicinskog  
fakulteta u Beogradu (Upravnik prof. dr Radivoje Berovic)  
(PANCREAS dis)  
(ECHINOCOCCOSIS case reports)

SECRET

CONFIDENTIAL

1. The purpose of this document is to provide information on the activities of the Central Intelligence Agency (CIA) in the area of intelligence gathering and analysis.

YUGOSLAVIA

RASOVIC, Ljubomir; GERZIC, Zoran; LEPOSAVIC, Miodir; PEROVIC, Miroje;  
MILENKOVIC, Miodrag; DUGALIC, Dragan and PANTIC, Jugoslav; First Surgical  
Clinic of Medical Faculty of University (Hirurska klinika Medicinskog  
fakulteta Univerziteta), Head (Upravnik) Prof Dr Ljubomir RASOVIC,  
Belgrade.

"Experimental Homotransplantation of the Kidney in Dogs."

Belgrade, Srpski Arhiv za Tselokupno Lekarstvo, Vol 93, No 4, Apr 1965;  
pp 373-380.

Abstract [English summary modified]: Detailed report on one auto-  
transplantation and 10 homotransplantations of the kidney in dogs.  
The contralateral kidney was removed in all except one dog; this was  
also the only animal that survived over 15 days postoperative, except  
for the autotransplantation case. Table, surgical specimen photograph,  
1 Soviet and 9 Western references; manuscript received 18 Dec 64.

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- 216 -

[illegible]

.....

Information is available in the report. The report is available in the report.

[illegible]

belonging to the same family.

1. Konstante Risiko-behandlung, d.h. alle Risiken werden mit demselben Risiko-Preis bewertet (für Chernobyl, 1986).

(For Government, 1947)



USSR/Phys. Chem. Crystals

B-5

bs Jour : Ref Zhur - Khiziyev, No 7, 1957, 22195

Author : S. D. Zhurikhan

Inst : Not given

Title : The problem of the mechanism of diffusion.

Orig Pub : Fiz. Metallov i metallovedeniye, 1956, 2, No 2, 378-379

Abstract : Proceeding from the fact that as the metal melts, the diffusion coefficient grows by leaps and bounds, and becomes close to the diffusion coefficient of granular limits at its melting point, the author comes to the conclusion that the lattice at granular limits is very loose and that the energy of formation of vacancies at the limit is equal to zero. On this basis and assuming that we are dealing with a mechanism of diffusion through vacancies, it is demonstrated that  $E(\text{gr}) = (2/3)E_0$ , where  $E(\text{gr})$  and  $E_0$  are respectively energies of diffusion activation on the grain-limits and in the volume. This correlation is approx. confirmed for Cd, Zn, and Pb and is not confirmed for Ag.

Card 1/1

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GERZILOVA, B.

The ore-dressing plant. Nauka i tekhn mladezh 14 no.7:16-17 J1 '62.

GERMELYI, V.

Defects of transformers; voltage transformers and suggestions  
on how to eliminate their defects. p. 3+. Vol. 4, no. 2, 1956.  
VILHESSAG, Budapest. Hungary.

SOURCE: East European List, (EEAL) Library of Congress. Vol. 6, no. 1,  
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GMS', D.K. [Hes', D.K.]

Study of the lichens of Polesye. Vestsi AN BSSR. Ser. biial. nav.  
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GES', D.K.

First find of a rare form of *Cetraria* in White Russia. Sbor.  
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First find of *Oxytropis pillosa* L. in White Russia. Dokl.  
AN BSSR 7 no.8:552-553 Ag '63. (MIRA 16:10)

1. Institut biologii AN BSSR. Predstavleno akademikom AN  
BSSR V.F. Kuprevichem.

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Mosaic diseases of cucumbers grown under glass, Doki, AN BSR 9  
no.8:555-557 Ag '65. (MIRA 18:10)

1. Otdel fiziologii i sistematiki nizkiki rasteniy AN BSR.

STAROBINETS, Grigoriy Lazarevich; KOMAROV, Vladimir Stepanovich;  
GES', N.D., red.; BELEN'KAYA, I.Ye., tekhnred.

[Rubberlike polymer sorbents and chromatographic materials]  
Kauchukopodobnye polimery-sorbenty i khromatograficheskie  
materialy. Minsk, Izd-vo Belgosuniv.im. V.I.Lenina, 1959.  
127 p. (MIRA 13:3)  
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SHADURSKIY, Konstantin Stanislavovich; GES', N.D., red.; BELEN'KAYA, I.Ye.,  
tekhn. red.

[Lectures on general pharmacology] Lektsii po obshchei farmakologii.  
Izd.2., perer. i dop. Minsk, Izd-vo Belgosuniversiteta im. V.I.  
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(PHARMACOLOGY)

YERMOLENKO, N.F., akademik, red.; GES', N.D., red.; BELET'KAYA, I.Ye.,  
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1. Minsk. Universitet.  
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nazemnykh pozvonochnykh Belorussii. Minsk, Izd-vo M-va  
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zovaniia BSSR, 1961. 203 p. (MIRA 15:2)  
(White Russia--Vertebrates)

VINBERG, G.G., prof., red.; GES', N.D., red.; BELEN'KAYA, I.Ye.,  
tekhn. red.; DUBOVİK, A.P., tekhn. red.

[Primary production in seas and inland waters; reports]  
Pervichnaia produktsiia morei i vnutrennikh vod; doklady.  
Minsk, Izd-vo M-va vysshego, srednego spetsial'nogo i pro-  
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(Phytoplankton)

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fiziologii rastenii i mikrobiologii. Minsk, Izd-vo M-va  
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razovaniia BSSR. No.2. 1961. 153 p. (MIRA 16:4)  
(Plant physiology) (Microbiology)

DEMENT'YEV, V.A., prof., red.; ROMANOVSKIY, N.T. dots.kand.geog.nauk, red.;  
MEL'NICHUK, S.M., dots., kand. geogr. nauk, red.; SES', N., red.;  
LITVINSKAYA, T., red.

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GESALYAN L.S.

USSR/Human and Animal Physiology (Normal and Pathological).  
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Behavior.

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Abs Jour: Ref Zhur-Biol., No 17, 1958, 80040.

Author : Gesalyan, L.S.

Inst :

Title : Phenomenon of a System in the Conditioned Reflex  
Activity of Dogs.

Orig Pub: Izv. AN ArmSSR. Biol. i s.-kh. n., 1957, 10, No 5,  
21-30.

Abstract: In 3 dogs, a system of conditioned secretory reflexes  
was accomplished with food reinforcement M<sub>120</sub>, light  
40 wt, differentiation M<sub>60</sub>, passive rise of posterior  
paw, buzzer 10 times in 20 seconds, with removal 20  
seconds in two dogs and 15 seconds in one dog. The

Card : 1/2

100



GESBERG, M. K.

PA 22/49T42

USSR/Medicine -- Penicillin, Therapy Nov/Dec 48  
Medicine -- Bacteria, Anaerobic

"Penicillinotherapy for Anaerobic Sepsis,"  
M. K. Gesberg, Clinic of Obstetrics and Gynecol,  
TsIU, Min Pub Health USSR, and First Gynecol  
Hosp, Moscow City Health Dept, 4 pp

"Akusher i Ginekol" No 6

Experimental data was gathered from tests on  
13 recovered and 9 unrecovered cases. Concludes  
that penicillin lowers microorganic intoxication,  
decreases hemolysis and anorexia. Penicillin  
should be administered intravenously by the drop  
method and intramuscularly.

22/49T42

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Case of anaerobic sepsis with acute haemolytic crisis.

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TEXTIL. (Ministerstvo lehkého průmyslu) Praha, Czechoslovakia. Vol. 11, no. 5, May 1959.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, no. 10, Oct. 1959. Uncl.



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Insulation of vaults of glass furnaces, p. 40, SKLAD A K-PRANTR  
(Ministerstvo lehkého průmyslu) Praha, Vol. 4, No. 2, Feb. 1954

SOURCE: East European Accessions List (EAL) Library of Congress,  
Vol. 4, No. 12, December 1955

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Success of Novaky miners. Uhli 5 no.5:158 My '63.

1. Novacke bane, Novaky.

GESCHVANDTNER, Jozef

Socialist competition helps in accident prevention in mines. Blat  
5 no.10:338 0 '63.

1. Novacke bane, n.p., Novaky.

1. 10/10/1961

2. 10/10/1961 "The National Security Council has decided to  
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"An examination of the scope of sewage and a discussion of results in connection  
with the designing of sewage filter stations." p. 230.

SO: MONTHLY LIST OF EAST EUROPEAN ACCESSIONS, L.C., Vol. 3, No. 4, APRIL 1954

P. T. A.

GESCHWIND O.

*Chemistry & Chemical Technology*

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218

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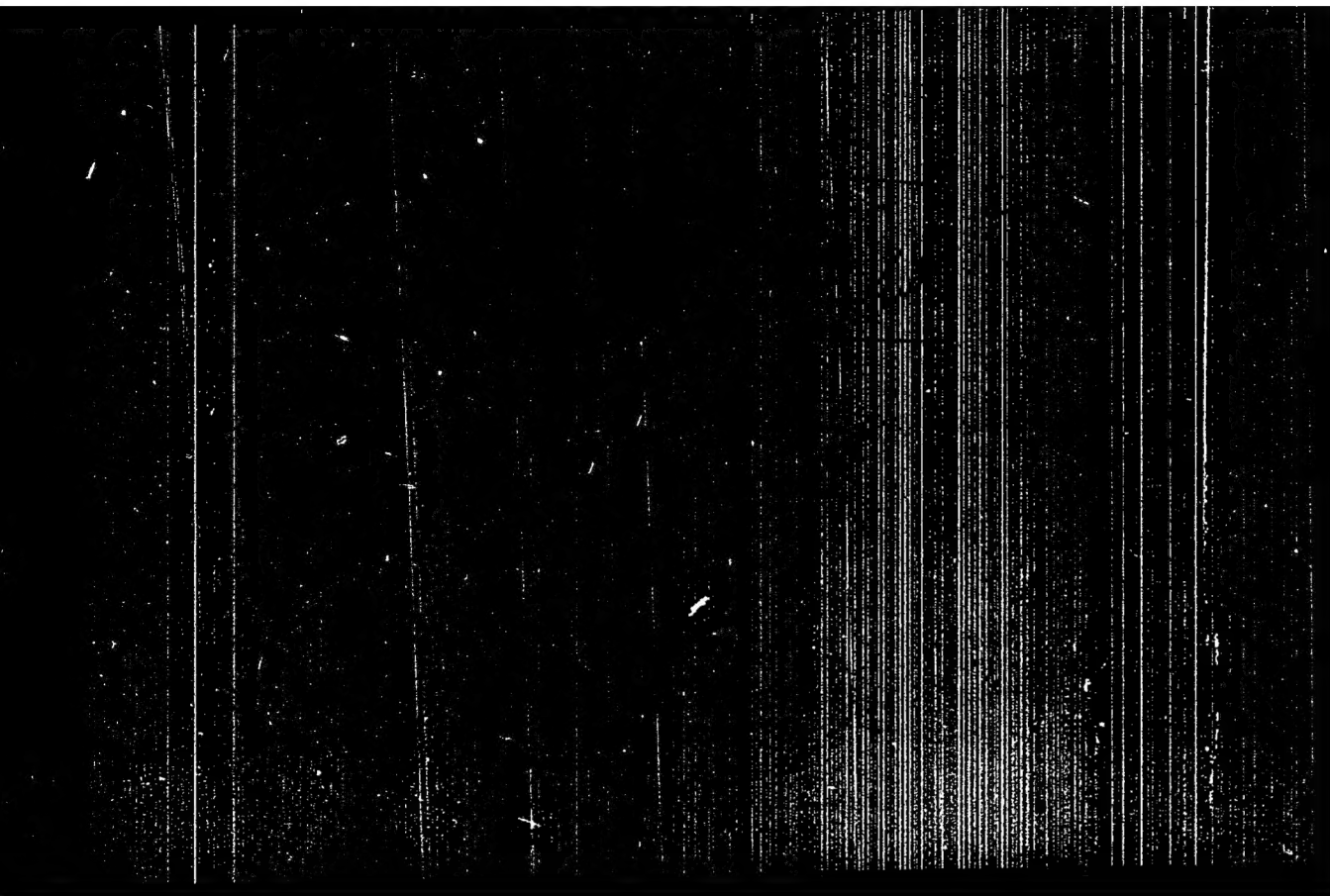
Geschwind O. Dr. Selective Solvent Refining of Crude Oil Residues by Means of Furfural and Cresol.

"Selektywna rafinacja furfurowem i krezolem powstalości ropnych" Natta No 1--2, 1950, pp 20--22, 3 tabs

Comparison of the results of trial selective refining by means of solvents -- furfural and cresol, together with determination of the degree of refining when using varying quantities of furfural in a greater or smaller number of doses. The results of tests show a variation in the properties of the extracts (oil) obtained during the selective solvent refining of crude oil residues by means of furfural and cresol. Insignificant differences in the properties of extracts have been noted when using furfural in both varying and uniform quantities though in a varying number of doses. A variation in the proportion of water added to cresol influences not merely the properties but also the productivity of the extract.

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(PEACE. Katowice, Poland. No. 45, 1956.)

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